

AMENDMENTS

In the Claims:

This listing of claims replaces all prior versions, and listings, of claims for this application.

1. (Currently Amended) An optical pickup device, comprising:

a light source for emitting light to an information recording medium;

a light detector including a plurality of light receiving portions, the light detector receiving light reflected by the information recording medium by the plurality of light receiving portions so as to detect information represented by the reflected light; and

a correction optical device section including a correction optical device for correcting a light path of the reflected light before the plurality of light receiving portions receive the reflected light, and a correction optical device control section for controlling the correction optical device in accordance with a ratio of a light spot received by the plurality of light receiving portions such that the ratio of the light spot received by the plurality of light receiving portions is returned to a prescribed value when deviated from the prescribed value,

wherein the correction optical device control section is configured to adjust an angle of the correction optical device to correct the light path of the reflected light.

2. (Original) An optical pickup device according to claim 1, wherein the correction optical device section is located on a portion of a light path from the information recording medium to the plurality of light receiving portions, the portion not overlapping with a light path from the light source to the information recording medium.

3. (Withdrawn) An optical pickup device according to claim 1, wherein the correction optical device includes a flat plate-like transparent member or a concaved lens.

4. (Original) An optical pickup device according to claim 1, wherein the correction optical device includes a focusing error generation optical device for causing a focusing error to the reflected light.

5. (Original) An optical pickup device according to claim 4, wherein the focusing error generation optical device includes a cylindrical lens.

6. (Original) An optical pickup device according to claim 1, further comprising a focusing error generation optical device, located on the optical path from the information recording medium to the plurality of light receiving portions, for causing a focusing error to the reflected light.

7. (Original) An optical pickup device according to claim 6, wherein:

the focusing error generation optical device includes an astigmatism generation device for causing an astigmatism to the reflected light; and

the plurality of light receiving portions receive the reflected light to which the astigmatism is caused by the astigmatism generation device, and thus the light detector detects focusing error information representing the focusing error.

8. (Original) An optical pickup device according to claim 6, wherein the focusing error generation optical device includes a cylindrical lens.

9. (Canceled)

10. (Currently Amended)) An optical pickup device according to claim [[9]] 1, wherein the correction optical device control section includes a location angle control section for controlling the angle of the correction optical device with respect to a horizontal direction.

11. (Original) An optical pickup device according to claim 10, wherein the location angle control section includes:

a correction optical device driving section for changing the angle of the correction optical device with respect to the horizontal direction; and

a control section for controlling the correction optical device driving section in accordance with the ratio of the light spot received by the plurality of light receiving portions.

12. (Original) An optical pickup device according to claim 11, wherein:

the correction optical device driving section includes:

a coil member provided at an end of the correction optical device; and
a magnet member provided so as to face the coil member; and
the control section controls an electric current to be supplied to the coil member to generate a magnetic force between the coil member and the magnet member, so as to control the correction optical device driving section to change the angle of the correction optical device with respect to the horizontal direction.

13. (Withdrawn) An optical pickup device according to claim 1, further comprising a knife edge-like member having a pierced tip located at a position at which the reflected light is converged on the light path from the information recording medium to the plurality of light receiving portions; wherein:

the knife edge-like member causes a focusing error to the reflected light; and
the plurality of light receiving portions receive the reflected light to which the focusing error is caused by the knife edge-like member, and thus the light detector detects focusing error information representing the focusing error.

14. (Original) An optical pickup device according to claim 1, further comprising an objective lens, located on a light path from the light source to the information recording medium, for converging the light emitted by the light source on a surface of the information recording medium.

15. (Currently Amended) A method for controlling an optical pickup device, comprising the steps of:

correcting a light path of light reflected by an information recording medium by a correction optical device in accordance with a ratio of a light spot received by the plurality of light receiving portions such that the ratio of the light spot received by the plurality of light receiving portions is returned to a prescribed value when deviated from the prescribed value; and

fixing the correction optical device which has corrected the light path of the reflected light,

wherein the step of correcting includes the step of adjusting an angle of the correction optical device to correct the light path of the reflected light.

16. (Original) A method according to claim 15, wherein the step of correcting includes the step of adjusting an angle of the correction optical device with respect to a horizontal direction.

17. (Original) A method according to claim 15, further comprising the step of locating the correction optical device on a portion of a light path from the information recording medium to the plurality of light receiving portions, the portion not overlapping with a light path from the light source to the information recording medium.

18. (Original) A method according to claim 15, further comprising the step of adjusting a distance between an objective lens and a surface of the information recording medium, the objective lens being located on a light path from the light source to the information recording medium, such that the light emitted by the light source is converged on the surface of the information recording medium before the step of correcting.